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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/23/2004

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213

EXAMINER

PHILOGENE, HAISSA

ART UNIT PAPER NUMBER

2821

DATE MAILED: 02/23/2004

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960.767	09/24/2001	Shunii Tsuida	O66068	6484

TITLE OF INVENTION: ELECTRON TUBE DEVICE MOUNTED WITH A COLD CATHODE AND A METHOD OF IMPRESSING VOLTAGES ON ELECTRODES OF THE ELECTRON TUBE DEVICE

į	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1330	\$300	\$1630	05/24/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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02/23/2004

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile

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(Depositor's name)

(Signature)

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nonprovisional	NO	\$1330		\$300	\$1630	05/24/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS]	
PHILOGENE, HAISSA 2821				315-003000		
1. Change of correspondence CFR 1.363).	e address or indication of "F	ee Address" (37		g on the patent front page to 3 registered patent		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or 2			
			agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

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obtain or retain a benefit by the public application. Confidentiality is governed be estimated to take 12 minutes to complete completed application form to the USP case. Any comments on the amount or suggestions for reducing this burden, sh	d by 37 CFR 1.311. The information is required to which is to file (and by the USPTO to process) any 35 U.S.C. 122 and 37 CFR 1.14. This collection is equired, including gathering, preparing, and submitting the TO. Time will vary depending upon the individual f time you require to complete this form and/or ould be sent to the Chief Information Officer, U.S. Department of Commerce, Alexandria, Virginia DR COMPLETED FORMS TO THIS ADDRESS.			

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75	590 02/23/2004	EXAMINER			
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Washington, DC 20			ART UNIT	PAPER NUMBER	
<i>5 .</i>			2821		
			DATE MAILED: 02/23/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 456 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 456 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			₽ ^r
	Application No.	Applicant(s)	
	09/960,767	TSUIDA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Haissa Philogene	2821	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	pears on the cover sheet w. IS (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due co	urse. THIS
1. \boxtimes This communication is responsive to <u>application filed 9/2</u>	<u>24/01</u> .		1
2. The allowed claim(s) is/are 8, 17, 18, 25 now renumbere	ed 1-4 .		
3. The drawings filed on are accepted by the Examin	ner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents ha 2. Certified copies of the priority documents ha 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE	ive been received. Ive been received in Application documents have been receive E" of this communication to file	on No. <u>09/132,571</u> . d in this national stage application	
noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sub-	omitted. Note the attached EX		TICE OF
INFORMAL PATENT APPLICATION (PTO-152) which g 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") m (a) ☐ including changes required by the Notice of Draftspe 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	nust be submitted. erson's Patent Drawing Revie		
(b) ☑ including changes required by the attached Examine Paper No./Mail Date	er's Amendment / Comment o		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			ick) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			e the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SE	B) 6. ☐ Interview S Paper No.	nformal Patent Application (PTO-1 Summary (PTO-413), /Mail Date s Amendment/Comment	152)
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposi	t 8. ⊠ Examiner's	Statement of Reasons for Allowa	ance
of Biological Material	9. ⊠ Other <u>attac</u>		,
		Haissa Philogene Primary Examiner	: ?/

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: In the Drawings, Fig.1B has been labeled as –PRIORT ART--. In Fig.17, the dotted box has been labeled as –47--.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose an electron tube device mounted with a cold cathode and method of impressing voltages on electrodes of the electron tube device mounted with the cold cathode having, inter alia, a power supply unit for <u>finally impressing the gate electrode</u> voltage at the rise time of said device and first shutting off the gate electrode voltage at the fall time of said device, as recited in claims 8, 17, 18 and 25. The examiner has then allowed claims 8, 17, 18 and 25.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tsuida et al., Patent No. 6,583,567; Tsuida et al., Patent No. 6,310,438; Takahashi, Patent No. 6,114,808; Seko et al., Patent No. 6,377,231.

None of the above patents discloses the functional limitation "finally impressing the gate electrode voltage at the rise time of said device and first shutting off the gate electrode voltage at the fall time of said device", as recited.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haissa Philogene whose telephone number is (571) 272-1827. The examiner can normally be reached on 6:30 A.M.-6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571)272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Haissa Philogene Primary Examiner A. 17821

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

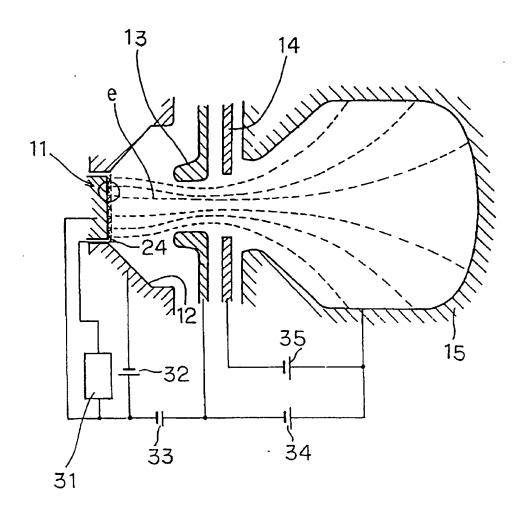
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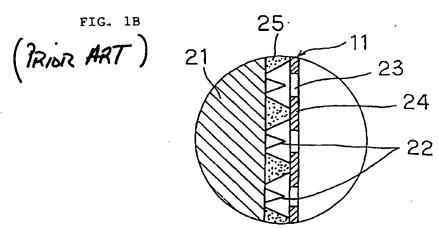
HOPEDY VENERAL

Title: Electron Tube Device Mounted With a Cold Cathode and a Method of Impressing Voltages on Electrodes of The Electron Tube Device Inventor: TSUIDA, Shinju, et al.

Divisional of U.S. Appln. No. 09/808,041

FIG. 1A PRIOR ART





Title: Electron Tube Device Mounted With a Cold Cathode and a Method of Impressing Voltages on Electrodes of The Electron Tube Device Inventor: TSUIDA, Shinju, et al. Divisional of U.S. Appln. No. 09/808,041

FIG. 15

